

SMITHS/018 Div.

FLIGHT LOCK ACTUATOR WITH DUAL ENERGY SOURCES

Abstract of the Disclosure

5 A flight lock actuator that can be powered by  
two sources of stored energy when aircraft power has been  
switched off. A mechanical energy storage means and an  
electrical energy storage means provide a fully redundant  
energy storage system that stores sufficient energy to  
complete the actuator's extension stroke when aircraft  
10 power is removed. The actuator has a motor control  
system that limits the stroke velocity for both the  
extension and retraction strokes, including a damper  
feature capable of effectively braking the actuator  
during the back-driven extension stroke.